

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A method Method for producing a curvilinear folded structure production (as applied to sandwich panel core) including comprising the steps of:
bending of a sheet blank along the bending lines to formation of form a 3-D relief structure; structures, e.g. on the basis of zigzag crimps, including bending and
folding of the 3-D relief structure until complete blank to joining of sides of the 3-D relief structure to obtain a folded structure the obtained folded structure plane block ridges;
whereupon it is put into the shape of arch by applying shear stresses providing to the folded structure so as to form a folded arched-shaped structure in its lateral section the curvature radius defined by the given curvilinear folded structure design parameters;
and is thermally treated treating said folded arched-shaped structure thereby relieving in such condition for inner stresses relief in the folded arched-shaped structure material; and
whereupon it is stretched after said step of thermally treating, stretching said folded arched-shaped structure so as to produce said curvilinear folded structure having an overall curvature radius to the design parameters given.

Claim 2 (Currently Amended): The method Method for folded structure production according to claim 1, including thermal treatment of folded structure, e.g. from aramide "NOMEX" paper, wherein said step of thermally treating is performed under a reheat temperature equal to within a range of 180-210° C and a decay time equal to within a range of 20-30 minutes.

Claim 3 (New). The method according to claim 1, wherein said step of applying said shear stresses is performed so as to form said folded arched-shaped structure with a first

curvature radius that is a function of said overall curvature radius, and said step of stretching said folded arched-shaped structure is performed by stretching said folded arched-shaped structure from said first curvature radius to said overall curvature radius.

Claim 4 (New). The method according to claim 2, further comprising a step of providing aramide NOMEX paper for said sheet blank.

Claim 5 (New). The method according to claim 1, wherein the step of bending said sheet blank is performed on the basis of zigzag crimps.